

IN THE CLAIMS:

✓ Please cancel claims 1-8.

Kindly add the following new claims 9-28:

B

9. A vibration generating device for a small wireless machine, comprising:
an eccentric load portion;
two side walls extending from said eccentric load portion, each of said two side
walls having
(i) an inner surface, such that a groove having an open end and a
bottom is defined between said inner surface of one of said two side walls and said
inner surface of the other of said two side walls,
(ii) an outer surface,
(iii) an end surface interconnecting said inner surface and said outer
surface and positioned at a level relative to the bottom of said groove, said end
surface having a first end and a second end, and
(iv) a caulked portion extending into said groove from a location that
is between said inner surface and said outer surface, and said caulked portion being
positioned at a level that is closer to the bottom of said groove than is the level at
which said end surface is positioned such that along an intersection of said end
surface and said outer surface said end surface is continuous from said first end to
said second end; and

B1
Claim 1

a motor shaft positioned within said groove between said caulked portion of each of said two side walls and the bottom of said groove such that said motor shaft is in its entirety between the bottom of said groove and said end surface,

wherein said caulked portions result from deforming respective portions of said two side walls from the open end of said groove toward the bottom of said groove such that said motor shaft is maintained in said groove via said caulked portions, whereby said motor shaft is integrally coupled to said eccentric load portion.

10. The vibration generating device according to claim 9, wherein said caulked portion defines a recess in said end surface, said recess having a first side and a second side, with said first side being nearer to said inner surface than is said second side and with said second side being nearer to said outer surface than is said first side, and with said first side having a dimension extending in a direction from said first end of said end surface to said second end of said end surface that is greater than a dimension of said second side extending in a direction from said first end of said end surface to said second end of said end surface.

11. The vibration generating device according to claim 10, wherein said end surface has a width dimension W extending from said inner surface to said outer surface, and said recess extends from said inner surface toward said outer surface a distance within a range of from $0.25W$ to $0.90W$.

B
1
Cmt.

12. The vibration generating device according to claim 9, wherein said end surface has a width dimension W extending from said inner surface to said outer surface, and said caulked portion defines a recess in said end surface that extends from said inner surface toward said outer surface a distance within a range of from 0.25W to 0.90W.

13. The vibration generating device according to claim 12, wherein said motor shaft has a diameter, and wherein said inner surface is configured such that said groove includes a portion that surrounds said motor shaft for at least 180° of said motor shaft and such that the open end of said groove has a width that is from 70% to 95% of the diameter of said motor shaft.

14. The vibration generating device according to claim 9, wherein said motor shaft has a diameter, and wherein said inner surface is configured such that said groove includes a portion that surrounds said motor shaft for at least 180° of said motor shaft and such that the open end said groove has a width that is from 70% to 95% of the diameter of said motor shaft.

15. The vibration generating device according to claim 9, wherein said eccentric load portion is of a truncated fan shape having two flat surfaces that correspond to said end surfaces of said two side walls, respectively, and said outer surfaces of said two side walls respectively correspond to outer surfaces of said truncated fan shape that form an angle of less than 180° with one another.

*B1
Cmt*

16. The vibration generating device according to claim 15, wherein said caulked portion defines a recess in said end surface, said recess having a first side and a second side, with said first side being nearer to said inner surface than is said second side and with said second side being nearer to said outer surface than is said first side, and with said first side having a dimension extending in a direction from said first end of said end surface to said second end of said end surface that is greater than a dimension of said second side extending in a direction from said first end of said end surface to said second end of said end surface.

17. The vibration generating device according to claim 16, wherein said end surface has a width dimension W extending from said inner surface to said outer surface, and said recess extends from said inner surface toward said outer surface a distance within a range of from $0.25W$ to $0.90W$.

18. The vibration generating device according to claim 15, wherein said end surface has a width dimension W extending from said inner surface to said outer surface, and said caulked portion defines a recess in said end surface that extends from said inner surface toward said outer surface a distance within a range of from $0.25W$ to $0.90W$.

19. The vibration generating device according to claim 18, wherein said motor shaft has a diameter, and wherein said inner surface is configured such that said groove includes a portion that surrounds said motor shaft for at least 180° of said

B1
CONT.

motor shaft and such that the open end of said groove has a width that is from 70% to 95% of the diameter of said motor shaft.

20. The vibration generating device according to claim 15, wherein said motor shaft has a diameter, and wherein said inner surface is configured such that said groove includes a portion that surrounds said motor shaft for at least 180° of said motor shaft and such that the open end of said groove has a width that is from 70% to 95% of the diameter of said motor shaft.

21. A vibration generating device for a small wireless machine, comprising:
an eccentric load portion;

two side walls extending from said eccentric load portion, each of said two side walls having

(i) an inner surface, such that a groove having an open end and a bottom is defined between said inner surface of one of said two side walls and said inner surface of the other of said two side walls,

(ii) an outer surface,

(iii) an end surface interconnecting said inner surface and said outer surface, and

(iv) a caulked portion extending into said groove; and

a motor shaft positioned within said groove between said caulked portion of each of said two side walls and the bottom of said groove,

B
Cmt.

wherein said motor shaft has a diameter, and wherein said inner surface is configured such that said groove includes a portion that surrounds said motor shaft for at least 180° of said motor shaft and such that said open end of said groove has a width that is from 70% to 95% of the diameter of said motor shaft, and

wherein said caulked portions result from deforming respective portions of said two side walls from the open end of said groove toward the bottom of said groove such that said motor shaft is maintained in said groove via said caulked portions, whereby said motor shaft is integrally coupled to said eccentric load portion.

22. The vibration generating device according to claim 21, wherein said end surface has a width dimension W extending from said inner surface to said outer surface, and said caulked portion defines a recess in said end surface that extends from said inner surface toward said outer surface a distance within a range of from 0.25W to 0.90W.

23. The vibration generating device according to claim 21, wherein said eccentric load portion is of a truncated fan shape having two flat surfaces that correspond to said end surfaces of said two side walls, respectively, and said outer surfaces of said two side walls respectively correspond to outer surfaces of said truncated fan shape that form an angle of less than 180° with one another.

*B1
C1/M1 D1*

24. The vibration generating device according to claim 23, wherein said end surface has a width dimension W extending from said inner surface to said outer surface, and said caulked portion defines a recess in said end surface that extends from said inner surface toward said outer surface a distance within a range of from 0.25W to 0.90W.

25. The vibration generating device according to claim 21, wherein said inner surface is configured such that said portion of said groove surrounds said motor shaft for more than 180°.

26. The vibration generating device according to claim 21, wherein said portion of said groove that surrounds said motor shaft for at least 180° of said motor shaft comprises a semi-cylindrical portion terminating at ends that are spaced from one another by a distance that is less than the diameter of said motor shaft, and wherein the open end of said groove is defined by segments that extend from the ends of said semi-cylindrical portion.

27. The vibration generating device according to claim 26, wherein the ends of said semi-cylindrical portion are spaced from one another by a distance that is from 70% to 95% of the diameter of said motor shaft.

28. The vibration generating device according to claim 27, wherein said segments are substantially parallel with one another.